

For Research Use Only

# PSMD7 Polyclonal antibody

Catalog Number: 16034-1-AP

Featured Product

4 Publications



## Basic Information

### Catalog Number:

16034-1-AP

### Size:

300 µg/ml

### Source:

Rabbit

### Isotype:

IgG

### Immunogen Catalog Number:

AG8905

### GenBank Accession Number:

BC012606

### GeneID (NCBI):

5713

### UNIPROT ID:

P51665

### Full Name:

proteasome (prosome, macropain)  
26S subunit, non-ATPase, 7

### Calculated MW:

324 aa, 37 kDa

### Observed MW:

37 kDa

### Purification Method:

Antigen affinity purification

### Recommended Dilutions:

WB 1:500-1:3000

IP 0.5-4.0 µg for 1.0-3.0 mg of total  
protein lysate

IHC 1:500-1:2000

IF/ICC 1:10-1:100

## Applications

### Tested Applications:

WB, IHC, IF/ICC, IP, ELISA

### Cited Applications:

WB, IF, IP, ColP

### Species Specificity:

human, mouse, rat

### Cited Species:

human, mouse

**Note-IHC: suggested antigen retrieval with  
TE buffer pH 9.0; (\*) Alternatively, antigen  
retrieval may be performed with citrate  
buffer pH 6.0**

### Positive Controls:

**WB** : HeLa cells, K-562 cells, mouse liver tissue, rat  
liver tissue

**IP** : K-562 cells,

**IHC** : human colon cancer tissue, human lung cancer  
tissue, mouse liver tissue, rat kidney tissue

**IF/ICC** : HepG2 cells,

## Background Information

Proteasome 26S subunit, non-ATPase 7 (PSMD7), an ATP-independent component of the 19S regulatory subunit, is a member of the JAMM/MPN domain-associated metallopeptidase (JAMM) DUB family. PSMD7, as a core component of the 26S proteasome, is critical for the degradation of ubiquitinated proteins in the proteasome. PSMD7 arrests cell cycle in the G2/M phase during HIV infection. The molecular weight of PSMD7 is 37 kDa. (PMID: 34512150, 34234864)

## Notable Publications

Author	Pubmed ID	Journal	Application
Jianjiang Wang	34512150	Int J Biol Sci	WB, ColP
Jiangyun Shen	39333628	EMBO Rep	IF
Chen Luo	38494478	Cell Biosci	WB, IP, ColP

## Storage

### Storage:

Store at -20°C. Stable for one year after shipment.

### Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:

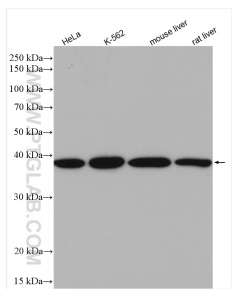
T: 4006900926

E: [Proteintech-CN@ptglab.com](mailto:Proteintech-CN@ptglab.com)

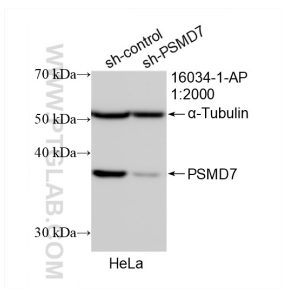
W: [ptgcn.com](http://ptgcn.com)

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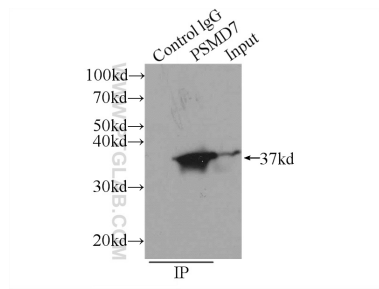
Selected Validation Data



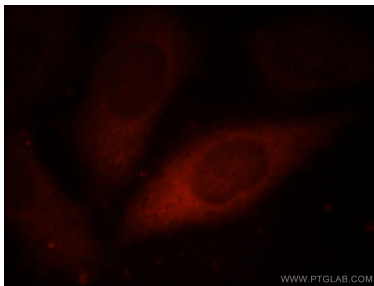
Various lysates were subjected to SDS PAGE followed by western blot with 16034-1-AP (PSMD7 antibody) at dilution of 1:1500 incubated at room temperature for 1.5 hours.



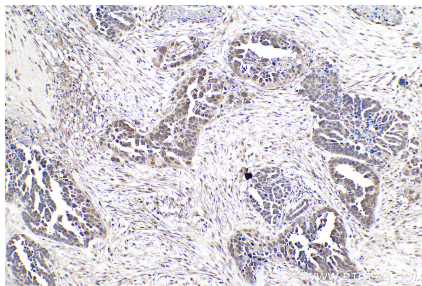
WB result of PSMD7 antibody (16034-1-AP; 1:2000; incubated at room temperature for 1.5 hours) with sh-Control and sh-PSMD7 transfected HeLa cells.



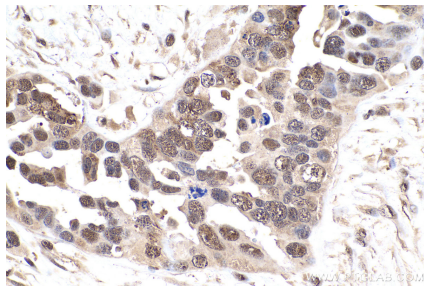
IP result of anti-PSMD7 (IP:16034-1-AP, 3ug; Detection:16034-1-AP 1:500) with K-562 cells lysate 2400ug.



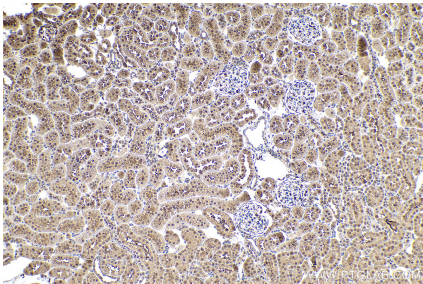
Immunofluorescent analysis of HepG2 cells, using PSMD7 antibody 16034-1-AP at 1:25 dilution and Rhodamine-labeled goat anti-rabbit IgG (red).



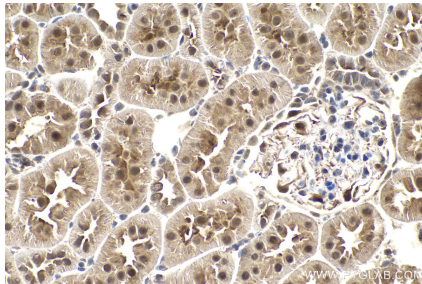
Immunohistochemical analysis of paraffin-embedded human colon cancer tissue slide using 16034-1-AP (PSMD7 antibody) at dilution of 1:1000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



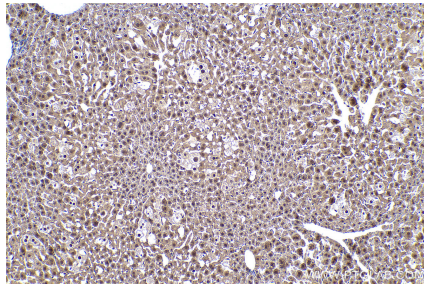
Immunohistochemical analysis of paraffin-embedded human colon cancer tissue slide using 16034-1-AP (PSMD7 antibody) at dilution of 1:1000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



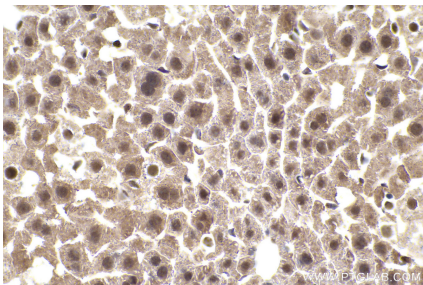
Immunohistochemical analysis of paraffin-embedded rat kidney tissue slide using 16034-1-AP (PSMD7 antibody) at dilution of 1:1000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded rat kidney tissue slide using 16034-1-AP (PSMD7 antibody) at dilution of 1:1000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded mouse liver tissue slide using 16034-1-AP (PSMD7 antibody) at dilution of 1:1000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded mouse liver tissue slide using 16034-1-AP (PSMD7 antibody) at dilution of 1:1000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).